

1 **Amendment to the Claims**

2 Please cancel Claim 62.

3 No other amendment to the claims has been made.

4 1. (Previously Presented) A method of migrating at least one client to a selected version of a
5 server-hosted application on a network, where at least two different versions of the server-hosted application
6 are available on the network, comprising the steps of:

7 (a) installing the at least two different versions of the server-hosted application on the
8 network, wherein the at least two different versions of the server-hosted application are not simply copies of a
9 single release of the server-hosted application, but wherein each different version of the at least two different
10 versions of the server-hosted application corresponds to a different release of the server-hosted application,
11 each different release incorporating at least one modification relative to any other release of the server-hosted
12 application;

13 (b) creating a register identifying clients having access to the server-hosted application
14 and indicating in the register which of the at least two different versions of the server-hosted application is
15 associated with each client having access to the server-hosted application;

16 (c) changing an association in the register of at least one client selected from those clients
17 identified in the register to a different version of the at least two different versions of the server-hosted
18 application; and

19 (d) directing each client attempting to access the server-hosted application to the version
20 corresponding to one of the at least two different versions of the server-hosted application with which the
21 client is associated in the register.

22 2. (Original) The method of Claim 1, wherein the register comprises meta information for each client.

23 3. (Previously Presented) The method of Claim 2, wherein the meta information for each client
24 includes a status of the client and a version identifier that indicates which of the at least two different versions
25 of the server-hosted application is associated with the client.

26 4. (Original) The method of Claim 3, wherein the meta information further comprises a location from
27 where server-hosted application data of a client can be retrieved.

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1 5. (Previously Presented) The method of Claim 1, further comprising the step of grouping together
2 version specific server-hosted application data into different data structures, such that at least one data structure
3 exists for each of the at least two different versions of the server-hosted application, and each at least one data
4 structure includes version specific server-hosted application data unique to only one of the at least two
5 different versions of the server-hosted application.

6 6. (Original) The method of Claim 1, further comprising the step of grouping together non version
7 specific server-hosted application data into a single data structure.

8 7. (Previously Presented) The method of Claim 1, further comprising the step of grouping together
9 client specific server-hosted application data into different data structures based on the version of the server-
10 hosted application that is associated with the client specific server-hosted application data, so that a different
11 client data structure exists for each of the at least two different versions of the server-hosted application.

12 8. (Original) The method of Claim 1, wherein the register comprises a separate data structure.

13 9. (Previously Presented) The method of Claim 1, wherein the step of directing each client attempting
14 to access the server-hosted application to the corresponding one of the at least two different versions of the
15 server-hosted application associated with the client comprises the step of examining a request from each client
16 for access to the server-hosted application to determine if the request contains a reference to the one of the at
17 least two different versions of the server-hosted application with which the client making the request is
18 associated.

19 10. (Previously Presented) The method of Claim 9, wherein when a request from a client does not
20 include a reference to which of the at least two different versions of the server-hosted application the client
21 should be directed, further comprising the step of incorporating a reference to the one of the at least two
22 different versions of the server-hosted application to which the client should be directed in a cookie returned to
23 the client from the server, such that when the client makes a future request, the register does not need to be
24 consulted to determine to which of the at least two different versions of the server-hosted application the client
25 should be directed.

26 11. (Previously Presented) The method of Claim 1, further comprising the step of examining a
27 request from a client for access to the server-hosted application to determine if the request contains a reference
28 to which of the at least two different versions of the server-hosted application the client should be directed,
29 before consulting the register to determine to which of the at least two different versions of the server-hosted
30 application the client is to be directed.

1 12. (Previously Presented) The method of Claim 11, wherein when a request from a client does not
2 include a reference to which of the at least two different versions of the server-hosted application the client
3 should be directed, further comprising the step of incorporating a reference to the one of the at least two
4 different versions of the server-hosted application to which the client should be directed in a cookie returned to
5 the client from the server, such that when the client makes a future request, the register does not need to be
6 consulted to determine to which of the at least two different versions of the server-hosted application the client
7 should be directed.

8 13. (Previously Presented) The method of Claim 1, wherein when a client attempts to access the
9 server-hosted application and is not identified in the register, further comprising the steps of defining one of the
10 at least two different versions of the server-hosted application as a default version of the server-hosted
11 application, and associating the client with the default version of the server-hosted application; and, adding
12 information identifying the client as being associated with the default version of the server-hosted application,
13 to the register.

14 14. (Previously Presented) The method of Claim 13, further comprising the step of incorporating a
15 reference to the default version of the server-hosted application in a cookie returned to the client from the
16 server, such that when that client makes a future request, the register does not need to be consulted to
17 determine to which of the at least two different versions of the server-hosted application the client should be
18 directed.

19 15. (Previously Presented) The method of Claim 1, wherein when a client attempts to access the
20 server-hosted application, and the request from the client includes a reference to the one of the at least two
21 different versions of the server-hosted application to which the unique client should be directed, but that
22 reference fails to define the one of the at least two different versions of the server-hosted application with
23 which data of the client are associated, further comprising the step of consulting the register to determine to
24 which of the at least two different versions of the server-hosted application the client should be directed.

25 16. (Previously Presented) The method of Claim 15, further comprising the steps of changing the one
26 of the at least two different versions of the server-hosted application contained in the request cookie to
27 correspond with the one of the at least two different versions of the server-hosted application identified by the
28 register, and returning the cookie that is thus corrected to the client, so that when the client makes a future
29 request, the future request will properly reference the one of the at least two different versions of the server-
30 hosted application with which the client is associated.

1 17. (Original) A machine-readable medium having machine instructions for performing the steps of
2 Claim 1.

3 18. (Previously Presented) A system for migrating at least a portion of a plurality of clients to a
4 specific unique version of a server-hosted application on a network to which the plurality of clients is coupled,
5 where at least two unique versions of the server-hosted application are available on the network, comprising:

6 (a) a computing device for each client coupled to the network; and
7 (b) a server having a processor and a memory in communication with the processor, said
8 memory storing machine instructions that when executed by the processor, cause the processor to:

9 (i) install the at least two unique versions of the server-hosted application for
10 access over the network, wherein the at least two unique versions are not simply identical copies of a single
11 release of the server-hosted application, but each of the at least two unique versions of the server-hosted
12 application corresponds to a different release of the server-hosted application, each different release including
13 at least one modification relative to any other release of the server-hosted application;

14 (ii) create a register identifying the plurality of clients having access to the
15 server-hosted application and including an association of a specific one of the at least two unique versions of
16 the server-hosted application with each client having access to the server-hosted application;

17 (iii) change an association in the register of a first group of clients selected from
18 the plurality of clients, to a different one of the at least two unique versions of the server-hosted application;
19 and

20 (iv) direct each client attempting to access the server-hosted application to the
21 specific one of the at least two unique versions of the server-hosted application with which the client is
22 associated in the register.

23 19. (Previously Presented) The system of Claim 18, wherein the machine instructions, when
24 executed by the processor, further cause the processor to direct each client attempting to access the
25 server-hosted application to the specific one of the at least two unique versions of the server-hosted application
26 with which the client is associated, by consulting the register to determine the specific one of the at least two
27 unique versions of the server-hosted application to which the client should be directed.

1 20. (Previously Presented) The system of Claim 18, wherein the machine instructions, when
2 executed by the processor, further cause the processor to direct each client attempting to access the
3 server-hosted application to the specific one of the at least two unique versions of the server-hosted application
4 with which the client is associated, by examining a request from each client to the server to determine if the
5 request contains a reference to the specific one of the at least two unique versions of the server-hosted
6 application to which the client should be directed.

7 21. (Previously Presented) The system of Claim 20, wherein when the request does not include a
8 reference to the specific one of the at least two unique versions of the server-hosted application to which the
9 client should be directed, the machine instructions cause the processor to identify the specific one of the at least
10 two unique versions of the server-hosted application to which the client should be directed, by consulting the
11 register.

12 22. (Previously Presented) The system of Claim 21, wherein when the request does not include a
13 reference to the specific one of the at least two unique versions of the server-hosted application to which the
14 client should be directed, the machine instructions further cause the processor to incorporate a reference to the
15 specific one of the at least two unique versions of the server-hosted application to which the client should be
16 directed in a cookie returned to the client from the server, such that when the client makes a future request, the
17 register does not need to be consulted to determine to which specific one of the at least two unique versions of
18 the server-hosted application the client should be directed.

19 23. (Previously Presented) The system of Claim 18, wherein when a client attempts to access the
20 server-hosted application, and the client is not identified in the register, the machine instructions further cause
21 the processor to define one of the at least two unique versions of the server-hosted application as a default
22 version of the server-hosted application, and to associate the client with the default version of the server-hosted
23 application, and add the client in association with the default version of the server-hosted application, to the
24 register.

25 24. – 35. (Previously Cancelled)

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1 36. (Previously Presented) A method of enabling a provider of a server-hosted application accessible
2 via a network to migrate selected clients from a first version of said server-hosted application to a second
3 version of said server-hosted application, such that at least one of the first version of the server-hosted
4 application and the second version of the server-hosted application remains accessible to at least some clients
5 of the network during the migration, comprising the steps of:

6 (a) creating a register identifying each client having access to the server-hosted
7 application, and associating each client having access to the server-hosted application with the first version of
8 the server-hosted application, wherein the first version of the server-hosted application is already installed on
9 the network, and wherein the first version of the server-hosted application and the second version of the server-
10 hosted application are not simply copies of a specific release of the server-hosted application, but rather the
11 first version of the server-hosted application and the second version of the server-hosted application are
12 different releases of the server-hosted application, each different release of these server-hosted application
13 including at least one modification relative to any other release of the server-hosted application;

14 (b) making the second version of the server-hosted application available on the network;

15 (c) selecting a first group of clients from those clients identified in the register to be
16 migrated to the second version of the server-hosted application;

17 (d) changing the register so that the register indicates each client included in the first
18 group of clients is associated with and allowed to access the second version of the server-hosted application,
19 but not the first version of the server-hosted application;

20 (e) each time that a client attempts to access the server-hosted application, automatically
21 identifying which one of the first version of the server-hosted application and the second version of the
22 server-hosted application that said client is allowed to access; and

23 (f) automatically directing said client to the one of the first version of the server-hosted
24 application and the second version of the server-hosted application that the client is allowed to access.

25 37. (Previously Presented) The method of Claim 36, wherein the register comprises meta information
26 for each client, said meta information including at least a status of each client and a version identifier that
27 identifies which of the first version of the server-hosted application and the second version of the server-hosted
28 application that the client is allowed to access.

29 38. (Original) The method of Claim 37, wherein the status comprises at least one of an active state
30 and a being migrated state.

1 39. (Previously Presented) The method of Claim 38, wherein when data of any of the first group of
2 clients must be reformatted to be compatible with the second version of the server-hosted application, for each
3 client in the first group of clients whose data requires reformatting, further comprising the steps of:

- 4 (a) modifying the register to identify the status of the client as in the being migrated state;
- 5 (b) reformatting the data associated with the client to be compatible with the second
6 version of the server-hosted application; and
- 7 (c) when the reformatting is completed, modifying the register to identify the status of the
8 client as being in the active state.

9 40. (Previously Presented) The method of Claim 39, wherein if an error occurs in reformatting the
10 data associated with the client, further comprising the steps of:

- 11 (a) modifying the register to identify the status of the client as in the being migrated state;
- 12 (b) reformatting the data associated of the client to be compatible with the first version of
13 the server-hosted application; and
- 14 (c) when the reformatting is completed:
 - 15 (i) modifying the register to identify the status of the client as in the active state;
 - 16 and
 - 17 (ii) changing the register so that the register indicates the client is associated with
18 and allowed to access the first version of the server-hosted application, but not the second version of the
19 server-hosted application.

20 41. (Original) The method of Claim 38, further comprising the step of determining the status of each
21 client attempting to access the server-hosted application, and if the status of the client is identified as being
22 migrated, preventing the client from accessing the server-hosted application, until the status of the client is
23 changed to the active state.

24 42. (Original) The method of Claim 38, further comprising the step of determining the status of each
25 client attempting to access the server-hosted application, and if the status of the client is identified as being
26 migrated, allowing the client only limited access to the server-hosted application, until the status of the client is
27 changed to the active state.

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1 43. (Original) The method of Claim 38, further comprising the step of determining the status of each
2 client attempting to access the server-hosted application, and if the status of the client is identified as being
3 migrated, allowing the client only limited access to the client's data stored by the server-hosted application,
4 until the status of the client is changed to the active state.

5 44. (Original) The method of Claim 36, further comprising the step of making the first version of the
6 server-hosted application unavailable to the network, if each client identified in the register as having access to
7 the server-hosted application, is associated with the second version of the server-hosted application.

8 45. (Original) The method of Claim 36, wherein the step of automatically identifying the version of
9 the server-hosted application that said client is allowed to access comprises the step of consulting the register
10 to determine the version of the server-hosted application that said client is allowed to access.

11 46. (Previously Presented) The method of Claim 36, wherein the step of automatically identifying the
12 version of the server-hosted application that said client is allowed to access comprises the step of examining a
13 request from said client to the server, to determine if the request contains a reference to which one of the first
14 version of the server-hosted application and the second version of the server-hosted application that said client
15 is allowed to access.

16 47. (Previously Presented) The method of Claim 46, wherein if the request does not include the
17 reference to which of the first version of the server-hosted application and the second version of the
18 server-hosted application that said client is allowed to access, the step of automatically identifying which of the
19 first version of the server-hosted application and the second version of the server-hosted application that said
20 client is allowed to access comprises the step of consulting the register to determine which of the first version
21 of the server-hosted application and the second version of the server-hosted application that said client is
22 allowed to access.

23 48. (Original) The method of Claim 46, wherein if the request does not include any reference to the
24 version of the server-hosted application that said client is allowed to access, further comprising the step of
25 incorporating a reference to the version of the server-hosted application that said client is allowed to access in a
26 cookie returned to said client from the server, such that when said client makes a future request, the register
27 does not need to be consulted to determine the version of the server-hosted application.

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1 49. (Previously Presented) The method of Claim 36, wherein when said client is not identified in the
2 register, further comprising the steps of defining one of the first version of the server-hosted application and
3 the second version of the server-hosted application as a default version of the server- hosted application,
4 associating said client with the default version of the server-hosted application, and updating the register to
5 identify said client and to indicate that said client is allowed to access the default version of the server- hosted
6 application.

7 50. (Original) The method of Claim 49, wherein said default version is the first version of the
8 server-hosted application.

9 51. (Original) The method of Claim 49, wherein said default version is the second version of the
10 server-hosted application.

11 52. (Previously Presented) The method of Claim 49, further comprising the step of incorporating a
12 reference to the default version of the server-hosted application that said client is allowed to access in a cookie
13 returned to said client from the server, such that when said client makes a future request, the register does not
14 need to be consulted to determine which of the first version of the server-hosted application and the second
15 version of the server-hosted application that said client is allowed to access.

16 53. (Previously Presented) The method of Claim 36, wherein when a request from said client to
17 access the server-hosted application includes a reference to the one of the first version of the server-hosted
18 application and the second version of the server-hosted application that said client is allowed to access, but the
19 reference fails to indicate the one of the first version of the server-hosted application and the second version of
20 the server-hosted application with which data of said client are associated, the step of automatically identifying
21 the one of the first version of the server-hosted application and the second version of the server-hosted
22 application comprises the step of consulting the register to determine which of the first version of the server-
23 hosted application and the second version of the server-hosted application that said client is allowed to access.

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1 54. (Previously Presented) The method of Claim 53, further comprising the steps of:

2 (a) changing the reference in the request to correspond to the one of the first version of
3 the server-hosted application and the second version of the server-hosted application that said client is allowed
4 to access that is defined in the register; and

5 (b) returning the changed reference to said client, such that when said client makes a
6 future request, said future request properly references the one of the first version of the server-hosted
7 application and the second version of the server-hosted application that said client is allowed to access.

8 55. (Original) The method of Claim 36, further comprising the steps of selecting a second group of
9 clients from those clients identified in the register that are allowed to access the first version of the
10 server-hosted application, and changing the register so that the register indicates each client included in the
11 second group of clients is associated with and allowed to access the second version of the server-hosted
12 application, but not the first version of the server-hosted application.

13 56. (Original) The method of Claim 55, wherein when all clients identified in the register are
14 associated with and only allowed access to the second version of the server-hosted application, further
15 comprising the step of making the first version of the server-hosted application unavailable to the network.

16 57. (Original) A machine-readable medium having machine instructions for performing the steps of
17 Claim 36.

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1 58. (Previously Presented) A system for enabling a provider of a server-hosted application to migrate
2 at least some clients from a first version of the server-hosted application to a second version of the
3 server-hosted application, such that at least one version of the server-hosted application remains accessible to
4 at least some of the clients during the migration, comprising:

5 (a) a plurality of computing devices, each computing device comprising a different client;
6 and

7 (b) a server having a processor and a memory in communication with the processor, said
8 memory storing machine instructions that when executed by the processor, cause the processor to:

9 (i) maintain a register that identifies each client having access to the
10 server-hosted application, for each client having access to the server-hosted application, associates the client
11 with the first version of the server-hosted application, wherein the first version of the server-hosted application
12 and the second version of the server-hosted application are not simply copies of a single release of the server-
13 hosted application, but instead, the first version and the second version of the server-hosted application
14 correspond to different releases of the server-hosted application, each different release of the server-hosted
15 application including at least one modification relative to any other release of the server-hosted application;

16 (ii) enable the first version of the server-hosted application and the second version
17 of the server-hosted application to be made available to the clients at the same time;

18 (iii) enable a first group of clients to be selected from those clients identified in the
19 register, for migration to the second version of the server-hosted application;

20 (iv) change the register so that the register indicates that each client included in the
21 first group of clients is associated with and allowed to access the second version of the server-hosted
22 application, but not the first version of the server-hosted application;

23 (v) each time that any client attempts to access the server-hosted application,
24 automatically identify which of the first version of the server-hosted application and the second version of the
25 server-hosted application that said client is allowed to access; and

26 (vi) direct said client to the one of the first version of the server-hosted application
27 and the second version of the server-hosted application that said client is allowed to access.

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1 59. (Previously Presented) A method of migrating at least one client to a selected version of a
2 server-hosted application on a network, comprising the steps of:

3 (a) installing a first version of the server-hosted application and a second version of the
4 server-hosted application on the network, the first version of the server-hosted application and the second
5 version of the server-hosted application corresponding to different releases of the server-hosted application,
6 each different release of the server-hosted application incorporating at least one change relative to any other
7 release of the server-hosted application, wherein each release of the server-hosted application is configured to
8 execute processing remote from the client, and to transmit a result to the client, wherein the server-hosted
9 application could have been executed by the client, if the server-hosted application resided on the client instead
10 of on the network hosting the server-hosted application, even if the client did not have access to the network;

11 (b) creating a register identifying clients having access to the server-hosted application
12 and indicating in the register which of the first version of the server-hosted application and the second version
13 of the server-hosted application is associated with each client having access to the server-hosted application;

14 (c) changing an association in the register of at least one client selected from those clients
15 identified in the register to a different one of the first version of the server-hosted application and the second
16 version of the server-hosted application; and

17 (d) directing each client attempting to access the server-hosted application to the one of
18 the first version of the server-hosted application and the second version of the server-hosted application with
19 which the client is associated in the register.

20 60. (Previously Canceled)

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1 61. (Previously Presented) A method of enabling a provider of a server-hosted application to replace
2 a first version of said server-hosted application with a second version of said server-hosted application,
3 comprising the steps of:

4 (a) creating a register identifying each client having access to the server-hosted
5 application, and associating each client having access to the server-hosted application with the first version of
6 the server-hosted application;

7 (b) making the second version of the server-hosted application available on the network,
8 wherein the first version of the server-hosted application and the second version of the server-hosted
9 application correspond to different releases of the server-hosted application, each different release of the
10 server-hosted application incorporating at least one change relative to any other release of the server-hosted
11 application;

12 (c) selecting a first group of clients from those clients identified in the register to be
13 migrated to the second version of the server-hosted application;

14 (d) changing the register so that the register indicates each client included in the first
15 group of clients is associated with and allowed to access the second version of the server-hosted application,
16 but not the first version of the server-hosted application;

17 (e) each time that a client attempts to access the server-hosted application, automatically
18 identifying the version of the server-hosted application that said client is allowed to access;

19 (f) automatically directing said client to the version of the server-hosted application that
20 the client is allowed to access; and

21 (g) once all of the clients of the server-hosted application have been migrated to the
22 second version of the server-hosted application, removing the first version of the server-hosted application
23 from the network, thereby replacing the first version of the server-hosted application with the second version
24 of the server-hosted application.

25 62. (Cancelled)
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